

# AT END OF DATA

## Structured Mode Syntax

```
[AT] END [OF] DATA [(r)]
    statement...
END-ENDDATA
```

## Reporting Mode Syntax

```
[AT] END [OF] DATA [(r)]
    {
        statement
        DO statement...DOEND
    }
```

Related Statements: AT START OF DATA | FIND | READ | HISTOGRAM | SORT | READ WORK FILE

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## Function

The AT END OF DATA statement is used to specify processing to be performed when all records selected for a database processing loop have been processed. It must be specified within the same program module which contains the loop creating statement.

This statement is non-procedural (that is, its execution depends on an event, not on where in a program it is located).

## Restrictions

This statement can only be used in a processing loop that has been initiated with one of the following statements: FIND, READ, READ WORK FILE, HISTOGRAM or SORT. It may be used only once per processing loop.

This statement is not evaluated if the processing loop referenced for END OF DATA processing is not entered.

## Reference to a Specific Processing Loop - r

An AT END OF DATA statement may be related to a specific active processing loop by using the "(r)" notation. If the "(r)" notation is not used, it will be related to the outermost active database processing loop.

## Values of Database Fields

When the AT END OF DATA condition for the processing loop occurs, all database fields contain the data from the last record processed.

## System Functions

Natural system functions may be used in conjunction with an AT END OF DATA statement as described in section System Functions of the Natural Reference documentation.

## Example

```

/* EXAMPLE 'AEDEX1S': AT END OF DATA (STRUCTURED MODE)
/*****
DEFINE DATA LOCAL
  1 EMPLOY-VIEW VIEW OF EMPLOYEES
    2 PERSONNEL-ID
    2 NAME
    2 FIRST-NAME
    2 SALARY (1)
    2 CURR-CODE (1)
END-DEFINE
/*****
LIMIT 5
EMP. FIND EMPLOY-VIEW WITH CITY = 'STUTTGART'
  IF NO RECORDS FOUND
    ENTER
  END-NOREC
  DISPLAY PERSONNEL-ID NAME FIRST-NAME
    SALARY (1) CURR-CODE (1)
/*
  ****
  AT END OF DATA
    IF *COUNTER (EMP.) = 0
      WRITE 'NO RECORDS FOUND'
      ESCAPE BOTTOM
    END-IF
    WRITE NOTITLE / 'SALARY STATISTICS;'
      / 7X 'MAXIMUM:' MAX(SALARY(1)) CURR-CODE (1)
      / 7X 'MINIMUM:' MIN(SALARY(1)) CURR-CODE (1)
      / 7X 'AVERAGE:' AVER(SALARY(1)) CURR-CODE (1)
  END-ENDDATA
/*
  ****
  END-FIND
/*****
END

```

PERSONNEL ID	NAME	FIRST-NAME	ANNUAL SALARY	CURRENCY CODE
11100328	BERGHAUS	ROSE	70800	DM
11100329	BARTHEL	PETER	42000	DM
11300313	AECKERLE	SUSANNE	55200	DM
11300316	KANTE	GABRIELE	61200	DM
11500304	KLUGE	ELKE	49200	DM
SALARY STATISTICS:				
	MAXIMUM:	70800	DM	
	MINIMUM:	42000	DM	
	AVERAGE:	55680	DM	

Equivalent reporting-mode example: See program AEDEX1R in library SYSEXRM.